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☐ 1: *Radiat Environ Biophys* 1975 Dec 4;12(4):271-80

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Fixation, retention and exhalation of carrier-free ^{11}C -labeled carbon monoxide by man.**Weinreich R, Ritzl F, Feinendegen LE, Schnippering HG, Stocklin G**

Carrier-free ^{11}C -labeled carbon monoxide was produced by proton irradiation of a nitrogen gas flow target via the $^{14}\text{N}(\text{p}, \alpha)^{11}\text{C}$ process followed by on-line reduction of the predominantly formed ^{11}C -carbon dioxide with a yield of 0.4 mCi/ μAmin . After appropriate quality control about 2 mCi of carrier-free ^{11}C -carbon monoxide in 500 ml on nitrogen gas were inhaled by test subjects in one breath. The ^{11}C -activity distribution was then followed in vivo by scanning above thorax, head, liver, thigh and os sacrum; simultaneously the ^{11}C -activity of the blood was also followed by batch measurement. The data indicate that part of the ^{11}C -activity migrates from the blood into the intercellular space, while another part is exhaled. The ^{11}C -activity leaves the individual organs with a biological half-life ranging from about 120 to 200 min, a time which is short as compared to the one observed for ^{51}Cr -labeled erythrocytes. A radio gas chromatographic analysis of the exhaled air showed that the ^{11}C -activity leaves the body exclusively in the form of ^{11}C -labeled carbon monoxide. Consequently, metabolism of the ^{11}CO into $^{11}\text{CO}_2$ or other compounds can be excluded.

PMID: 1202560, UI: 76079285

Abstract

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